

## Widows' New Pension Law.

Act of April 19, 1908. Under said law it makes no difference how much property or income you may have. We are giving special attention to the new law special attention. To the application under this act will not affect your right in any claim heretofore filed. Write for form of application (copy of official form with law on back in full) to  
**GEORGE BANCROFT & CO.,** 604 5th St. N. W., Washington, D. C.  
No Advance Fee.

## SCIENCE AND INVENTION.

### Work of the World's Busy Brains in Discovering, Inventing and Creating.

#### BETTER RAILS FOR THE ROADS.

It will be remembered that the controversy between the railmakers and the railroad managers was at one time over the amount of the "discard." The railroads insisted that from 25 to 35 per cent of each ingot should be thrown away, so as to avoid "piping" and other imperfections. The railmakers had been in a habit of only throwing away about 10 per cent. It has since been determined by actual experiment that it is unnecessary to make this restriction upon the output, but a careful inspection of the rails after being finished will determine whether there is any piping or other defects. Therefore, an agreement has been entered into to substitute this inspection for the former agreement, except that rigid rules are laid down as to the chemical composition of the steel. For those made of Bessemer steel there shall not be found more than 0.10 per cent of phosphorus and not more than 0.075 per cent of sulfur. A new adjustment will be made of the shape of the rails, so as to add to their strength and also allow the manufacturers to roll them at lower temperature, thus insuring a finer grain and better wearing quality.

#### STEEL BELTING.

Consul Frank S. Hannab, of Madagascar, writes that the Germans are successfully using steel bands to take the place of leather belting. On account of its solidity a much narrower band can be used, one-sixth of the width of the usual leather belt being sufficient. Therefore, the steel band is not so heavy, and it can be more tightly adjusted, greatly reducing the importance of the distance between the engine and the pulley. The lightness of the steel band allows an increase of velocity.

There has been a most remarkable revival of interest in bicycles, and the manufacturers are once more overwhelmed with orders. The industry reached the lowest point in 1904, when the fad for the vehicles died out in society, and the only users were those who needed them in their business. Of that year only 250,000 bicycles were made in this country, but last year the number rose to 750,000, and it is said that this year there will be 1,250,000 wheels turned out. A great many men who gave up the cycle when it ceased to be fashionable are resuming it with benefit to their health and greater convenience in business. The revival is not confined to this country, but is equally active in Canada and Great Britain.

Although remarkable progress has been made in standardizing American railroads, yet very much remains to be done in the way of promoting the convenience and economy of administration by uniformity on all the roads of the country. At its session last week in New York the American Railway Association adopted a standard series of rails of two types for both Bessemer and open-hearth rails. This in effect adopts one type of a rail weighing from 60 to 100 pounds per yard, and will be a general advantage to all concerned. With but one type of rail machinery manufacturing can be simplified, and the cost to a plant greatly reduced from what it has been where rails had to be maintained for some dozen different types. The next step is to standardize the cars and classify the nomenclature with a general code of air-brake signals which will be the same for every part of the country. This will help to reduce accidents by making signals absolutely unmistakable on the part of employees.

The English engineers are trying the experiment of spraying roads with tar to keep down the dust and reduce the cost of maintenance. So far the experiment seems to have been unusually successful. It is reported that the tar penetrates to the depth of half an inch, forming a water-tight skin, which sheds the newly-fallen rain rapidly and dries speedily when the storm is over. The best results have been obtained when the tar was forced against the surface in the form of a fine spray. The cost of repair has been greatly reduced, as well as that of sweeping the roads. When the surface is broken a tarred patch is easily and cheaply applied.

The British have made an important change in their patent policy. Heretofore anything could be patented upon application, and the patentee was left to fight it out in the courts whether his patent was of any value or not. Now the American practice will be followed, in the case of home patents at least, and an investigation will be made as to whether the article is really patentable or not. This method does not extend to foreign patents, which are accepted on their face and their validity left to be determined by the courts.

A man with a taste for calculations figures out that the concrete which will be used in constructing the locks of the Panama Canal would make a large town of 22,842 eight-room houses, each 30x30 feet, with two stories and basement, and concrete floors and roofs. If each of these were given a lot of 75 feet front, they would make a continuous street from New York to Philadelphia, with enough left to make one side of a street from Philadelphia to Washington.

#### MAGNITUDE OF THE ISTHMIAN WORK.

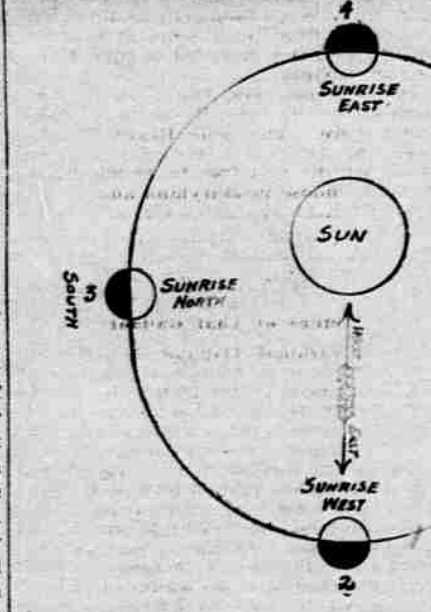
##### Every 50 Working Days a Mass Is Removed Equal to the Biggest Pyramid.

More figures convey but little idea to the average reader; comparisons are more valuable. It has been pointed out that every 50 working days the men who are digging the Panama Canal are removing an amount of dirt which, if piled in one place, would make a heap equal to the great pyramid of Cheops, which it took 100,000 men 20 years to build. This number of men also worked 20 years in constructing the pyramid, with the difference that the dirt taken out in a month would bury 10 great city blocks under 40 feet of soil. The illustration makes a comparison between the great pyramid of Cheops and the dirt taken out of the canal in a year.

#### DOES THE SUN RISE IN THE EAST?

##### A Problem Offered to Keen-Sighted Observers.

Editor National Tribune: I wish to present to your readers this problem of sunrise and sunset, and hope some one can explain it. The earth in its movement around the sun in its orbit and its daily motion is purely mechanical, and this diagram clearly and truthfully shows the different directions, relative to the north star, that the sun must appear to rise. That the direction of sunrise changes four times a year will be clear to every one when it is remembered that the earth is on four different sides of the sun during the year. Following its orbit, it is at one time between the sun and the north star, then to the east of the sun, then south and then west of the sun. Therefore, when we are north of the sun and stand with our left hand to the north we would be looking east, but the sun is not in that direction, but south of us. And so when we have passed to the east of the sun, if we stand with our left hand to the north we would be looking east, but the sun is west of us, and so when we are south of the sun, and when in the west we must look east for the sunrise. This diagram will prove this to be true. How, therefore, can these facts be reconciled with other facts that can no



more be doubted than that the above facts. That is, how can we stand with our left hand to the north star and so look east, as we always do, and see the sun rise, when the sun is west of us, or south, or north of us, as it is part of the time? It is manifest that the sun must appear from the side or direction the sun is from the earth, and if we are north of the sun the sun would appear over the rim of the earth from the direct change of the sun from the earth, and that is south, and so with any other position.

Referring to the diagram, if you take the position of the sun, that is, you are looking east, but there is no sun in that direction, and if you keep the same position at every place in the earth's orbit, when you must do, the sun always appears from the same position, you will see the sun rise but part of the time in the east; that is, when the sun is in the east. How, then, can the sun always appear to rise in the east when the earth changes its position from one side to the other?—B. H. Tripp, Canton, S. D.

#### Cutting Metals With Oxygen.

Much interest is developing among iron and steel men in the process of cutting metals by a stream of oxygen. The work is done by means of a blow-pipe with two nozzles, one of which delivers an ignited jet of mixed oxygen and hydrogen and the second a pure stream of oxygen. This burns rapidly thru the metal to which it is applied, making a smooth cut which requires little or no finishing. It is said that it does not affect the metal more than one-hundredth of an inch outside of the cut, and by its armor plates can be cut in one-twentieth of the time required for mechanical cutting. It costs far less strain and injury to the metal than is liable in shearing and punching it. At a cost of two cents per cubic foot for oxygen and two-thirds of a cent for hydrogen, the cost of cutting a steel plate four-fifths of an inch thick is about seven and one-fourth cents per running foot, or half the cost of mechanical cutting. This process is now being introduced into rolling mills, boiler shops and machine shops, and has been found useful in reducing scrap to a condition for the furnaces.

The largest steam engine in the world is a 25-horsepower engine in the rolling mill at Sharon, Pa., which weighs 550 tons without the foundation plates and fly wheel. One cylinder is 42 inches and the other 70 inches in diameter, and it runs at the rate of from 150 to 200 revolutions per minute.

## LA FOLLETTE'S FILLIBUSTER.

(Continued from page one.)

Chamber to get a document, and it was while the thing that Senator Gore completed his peroration. He sank into his seat, supposing that Senator Stone was at hand. Quick as a flash Senator Aldrich demanded the yeas and nays, and the reading clerk, who was in the secret of the trick, called out Mr. Aldrich's name, which was the first on the roll. That little maneuver broke the filibuster in a twinkling. There can be no debate during a roll call. A very stormy scene ensued. There were angry protests, but the Vice President ruled with an iron hand. He and what he regarded as the reading clerk of the House of Representatives. Precedents, for which the Senate is a great stickler, were smashed. The bill was put through its final passage, which was adjournment of the session eight days later, possible.

Probably much more will be heard of the rulings of Vice President Fairbanks, which furthered the breaking of the filibuster. Already Senator La Follette is making ready for the Chautauqua circuit, where he has a tremendous following. He intends to score the Vice President, and to air what he regards as the infirmities of the Aldrich-Vreeland currency bill. He will label it as a bill that the big Wall Street bankers and the railroads wanted, and will set forth his argument in terms not likely to please the Vice President and other Republicans in the Senate.

It is claimed that the Vice President disregarded well-established precedents to help Senator Aldrich along with his coup. Be that as it may, the Senate is likely to have a big talk over the question when it comes together again, while the matter may seem of minor importance to the average reader, the rules of the Senate affecting untrammeled debate have the very widest ramifications affecting the popular idea is that some closure rule in the Senate, such as the House has, would be advisable, but the Senate has always been strongly against any such restriction. There is a string of arguments pro and con, but the fact remains that practically all of the men who have served much time in the Senate regard the present rules as in the main far preferable, and think anything like the previous question or closure or restriction upon debate would be unfortunate.

But the Vice President's rulings were in most essential points upheld by vote of the Senate Republicans, and he can fall back upon that fact. It remains, however, that had not party spirit been running high and had not the Republican leaders been exceedingly anxious to crush their recalcitrant colleague from Wisconsin, the precedents of over 100 years governing procedure in the Senate would not have been violated. It is said to be likely that when the Senate meets again a rule will be adopted nullifying some of the precedents which were established during the La Follette filibuster.

One of the most novel uses ever made of the wireless telegraph was the arranging of a ball game while many miles out at sea. The baseball players of the 24th Inf., aboard the transport Sherman, en route to Honolulu, desired a game with some Honolulu ball team on the afternoon the ship was to make that port. While still a couple of hundred miles out the wireless apparatus was brought into play, and all details for a game were arranged. Within an hour after the transport arrived at Honolulu the game was in progress, watched by several thousand people.

#### How to Mend Plaster Casts.

(Popular Mechanics.) In mending plaster casts I have tried everything, including, with very poor results, until one day I tried oxy-

phosphate of zinc, a cement used by dentists for filling, and have never had a failure in any case. The cement should be made thin, and then the edges of the broken parts brought firmly together and held in place for a few minutes. To gather, collect and obtain, thru such expeditions or otherwise, exact information and data as to the geographical formation of the earth at what are commonly known as the "poles" thereof, and to spread generally knowledge as to the same.

#### IS THE EARTH HOLLOW?

##### The Club Formed to Explore the North and South Poles.

The Reed Hollow Earth Exploring Club was incorporated on the 24th of April, 1908, under the laws of New York, the object of the club being "to organize and encourage expeditions to explore the Arctic and Antarctic regions and to provide the necessary means, outfits, equipment and instruments for such expeditions, to the end that the truth or falsity of the proposition or theory advanced by William Reed that the earth is a hollow sphere, and as set forth in his publication, entitled 'The Reed Hollow Earth Exploring Club'."

"To gather, collect and obtain, thru such expeditions or otherwise, exact information and data as to the geographical formation of the earth at what are commonly known as the 'poles' thereof, and to spread generally knowledge as to the same."

"To acquire and maintain full and accurate records of all matters relating to any of the above and to gather and collect any and all books, publications and writings or other property of every character and description relating to exploration and travel and the inhabitants of such Arctic and Antarctic regions."

Frank M. Ashley is President and Capt. Bradley S. O'Neil, 132 E. 25th St., New York, Corresponding Secretary of the club.

## OLD GLOVE'S DAY.

(continued from page one.)

### Lincoln.

Like some grand mountain, rising from afar,  
Or like the radiance of the polar star,  
He'll shine down the ages thru each scene  
With all the glory of the Nazarine.  
A man of sorrow, faith and lofty love,  
Inspired by truth from heavenly powers above,  
Filled with the beauty of a magic mind  
That struggled for the freedom of mankind.

His honesty was pure as yonder sun,  
With all the patriotism of Washington,  
And heart and soul that felt for one  
Over was any man of his time.  
Who linger on this bleak, terrestrial ball,  
Within his mind no malice found a place  
For any mortal of the human race:  
With manhood lofty as a mountain range  
And charity without a scar or change.

He felt the hero of the freedom fight,  
And by the blow of an assassin hand,  
His spirit soared into the better land,  
Where from the ramparts of that glorious sphere  
He looks upon the people far and near,  
And blesses all who kneel at Freedom's shrine.

Implored for the pure and supernal,  
This man was reared among the pious,  
Of western woods, undaunted by false fears,  
Where all were free as nature in her sway,  
With dashing streams resounding night  
And birds of beauty fitting on the wing  
Among the wild flowers of the early Spring.

Where God was recognized in rock and tree,  
Eternal emblems of the brave and free,  
The iron jaws of poverty and pain  
Held fast his boyhood years in sun and rain,  
While rustic labor with its hungry face  
Pursued him constantly from place to place;  
Yet upward in his plodding course for fame  
He saw beyond the heights the flashing flame.

And never faltered in his Godlike creed  
To earn his words of freedom for the deed,  
Lincoln was called to save the Nation's life  
And soothe the sorrow of each warring strife,  
Where slavery and freedom battled strong  
To elevate the right or crush the wrong.  
When raging battles on the firing line  
Poured out their blood as foaming wine,  
Sparkling wine,  
Startling the world with their glorious deeds.

To show at last that Liberty succeeds,  
His proclamation that the toiling slave  
Should be forever free on land and wave  
Was heard across the Nations far and wide,  
And gave to human hearts a lasting pride.  
That cruelty and wrong were crushed  
And that the slavery lash and chains  
Had passed  
Into the dungeons of defeated crime,  
Buried forever in the tomb of time.

Ten thousand years from now his name  
Shall be  
Repeated by the men who would be free,  
Who live for lofty aims and love-lit play  
Among the beautiful and bright and gay,  
And while this Great Republic shall remain  
To bless the world by mount and stream  
And plain  
The fame of Lincoln shall forever grow  
Pure and brilliant as the Alpine snow.

Stars and Bars.  
(By Harriet Eunice Hawley; suggested by the frequent display of the Stars and Bars during a recently taken Southern trip.)  
Lay it away in lavender,  
Drop on its folds your tears;  
Hie its well-loved colors  
To the dust of departed years.

'Twas never yours by right—  
Your own you flung away  
When you opened first the Summer  
That fateful April day.  
What does it mean to you now?  
A world of grief and pain!  
Yet were it flying to-day  
Where would be the gain?

Down the river of life  
Are drifting, side by side,  
Those who opposed and upheld it;  
They go to the men who died.  
Brothers, united we stand,  
Under the Stripes and Stars;  
Loyally fold and lay away  
The flag of Stars and Bars.

Set it drift on the tide  
That ever flows to the sea,  
Where all the wrongs are righted  
On the shores of eternity.  
Memorial Day—May 30, 1908.  
(By George E. Tack, Baltimore, Md.)  
Comrades, on this field of peace  
Let us strew these flowers fair,  
Here where all life's troubles cease  
And our comrades know no care.

Green the sod, May's glories are blue,  
And waves Old Glory o'er each head,  
Where we these fragrant flowers strew,  
Down the serried ranks of dead,  
Often on the battlefield  
Fought we while the screaming shells  
Sought in vain to make us yield—  
Vain their screams and rebel yells.

## NEVER LET US FORGET.

The dangers that they met,  
Ere they beheld the blessed sun of freedom rise.

Thy lakes and streams,  
In the sunny beams,  
Are like silver, bright to the patriot's eye,  
And thy prairies grand,  
Oh, native land,  
Like inland seas, in their vastness lie!  
The banner of the free, with gratitude we see,  
Thou banner of the free!

As the Flag Goes By.  
(By H. C. Bunker.)  
Off with your hat as the Flag goes by!  
And let the heart have its say;  
You're man enough for a tear in your eye  
That you will not wipe away.  
You're man enough for a thrill that goes  
To your very finger tips—  
Ay! the lump just then in your throat  
That rose  
Spoke more than your parted lips.

Lift up the boy on your shoulder, high,  
And show him the faded shred—  
Those stripes would be red as the sunset sky  
If death could have dyed them red.  
The man that bore it with death has laid  
These 36 years and more—  
He died that the work should not be vain  
Of the men who bore it before.

The man that bears it is bent and old,  
And ragged his beard and gray—  
But look at his eye fire young and bold,  
At the time that he hears them play.  
The old time thunders thru all the air,  
And strikes right into the heart;  
If it ever calls for you, boy, be there!  
Be there and ready to start.

Or with your hat as the Flag goes by!  
Uncover the youngster's head!  
Tench him to hold it holy and high,  
For the sake of its sacred deed.  
A Song for Flag Day.  
(By Wilbur D. Nesbit.)  
Your Flag and my Flag,  
And how it flies to-day  
In your land and my land  
And half a world away!  
Remembered and revered  
The stripes forever gleam;  
Snow-white and blue-white—  
The good father's dream;  
Sky blue and true blue, with stars to gleam bright—  
The gloried guidon of the day; a shelter thru the night.

Your Flag and my Flag!  
And, oh, how much it holds—  
Your land and my land—  
Secure within its folds!  
Your heart and my heart  
Beats to the same old strain;  
Sun-kissed and wind-tossed;  
Red and blue and white.  
The one Flag—the great Flag—the  
Flag for me and you—  
Glorified all else beside—the red and white and blue!

Your Flag and my Flag!  
To every star and stripe  
The drums beat as hearts beat  
And flutters shrilly play  
Your Flag and my Flag—  
A blessing in the sky;  
You hope and my hope—  
It never hid a lie!  
Home land and far land and half the world around,  
Old Glory bows our glad salute and ripples to the sound!

Our Invaluable Flag.  
O, flag of our fathers! O, flag of our sons!  
O, flag of a world's desire,  
Thru the night and the light, thru the night and the day,  
Thru the smoke and the cloud and the fire,  
There are arms to defend, there are souls to be saved,  
While thy cluster of stars broadens over the wars that justice and mercy befall;  
There are breasts that will clasp it when battered and torn, there are prayers that brood like a dove,  
There are fingers to fashion it fold upon fold, and hands that will wave it above.

'Till fares the land, to hastening ills a prey,  
Where wealth accumulates, and men decay,  
Princes and lords may flourish or may fade,  
A breath can make them, as a breath can make them, as a breath  
But a well taught people, their country's pride,  
If once destroyed can never be supplied.

The Flag.  
(By James Whitcomb Riley.)  
The ocean guarded flag of light, for ever may it fly,  
It flashed o'er Monmouth's bloody fight, and lit McHenry's sky;  
It bears upon its folds of flame to earth's remotest shore  
The names of those whose deeds of fame shall ever inspire the brave.

Timbers have crashed and guns have roared beneath its radiant glow,  
But never did that ensign yield its honor to the foe;  
Its fame shall march with martial tread down ages yet to be,  
To guard these stars that never paled in light on land or sea.

Its stripes of red, eternal dyed with heart-streams of our lands,  
Its white, the snow-capped hills that hide in storm their upraised hands;  
Its blue, the ocean waves that beat round freedom's emerald shore;  
Its stars, the print of angels' feet that burn forevermore.

We are eager with our thanks, we are pressing on our ranks,  
And we grasp hands that held the stars unbroken,  
And we sadly think of those who are sleeping with their foes,  
While our trembling tongues give some sadly spoken  
But long delay is past; they have brought us peace at last,  
And how proudly thru our veins the blood is bounding,  
Yet we bless our honored dead, while the steady martial tread  
Of returning veterans in our ears is sounding.

## STAND BY THE FLAG.

Stand by the flag! its folds have stream'd in glory,  
To foes a fear, to friends a festive robe;  
And spread in rhythmic lines the sacred story  
Of freedom's triumph over all the globe.

Stand by the flag! tho' death-shot round it fall,  
And underneath its waving folds have met,  
In all the dread array of sanguine battle,  
The quivering lance and glistening bayonet.

Stand by the flag! on land and ocean billow,  
By its fathers stood unmoved and true;  
Living, defended; dying—from their pillow,  
With their last blessing, passed it on to you!

Stand by the flag! all doubt and treason believe with courage firm, and faith sublime,  
That it will float until 'till eternal morning pale in its glories all the lights of time!  
(By Thomas Dunn English.)

Flag of a land where the people are free,  
Ever the breezes salute and caress it,  
Planted on earth, or afloat on the sea,  
Gallant men guard it, and fair women bless it.  
Fling out its folds o'er a country united,  
Warmed by the fires that our forefathers lighted,  
Refuge where downtrodden man is invited  
Fling out the rainbow and banner of stars.

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## Have You Ever Stopped to Think About Your Health?

Are you as well, strong and vigorous as you used to be?  
Are you sometimes discouraged, and think you'll never be any better?  
Can you tell the cause of your trouble, or what makes you sick?  
Do you know that about nine-tenths of all sickness is caused by kidney trouble?

Have you ever stopped to think that your kidneys may be the cause of your poor health?  
Most people do not realize how much work the kidneys are required to do every day.  
Every drop of blood in the body must pass through and be filtered by the kidneys thousands of times a day.  
How can they do their work well if they are diseased and out of order?

If your kidneys need treatment, Dr. Kilmer's Swamp-Root will prove to be just the medicine you need.  
If you will write to Dr. Kilmer & Co., Binghamton, N. Y., every reader of this paper, who has not already tried Swamp-Root, the great Kidney, Liver and Bladder Remedy, may receive a sample bottle by mail, absolutely free.

Swamp-Root when first appear in the mouth can be readily cured by applying red vasoline. Anoint the sores twice during the day. Sometimes a simple application will be enough. The writer knows of no better, milder remedy for these painful sores.

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